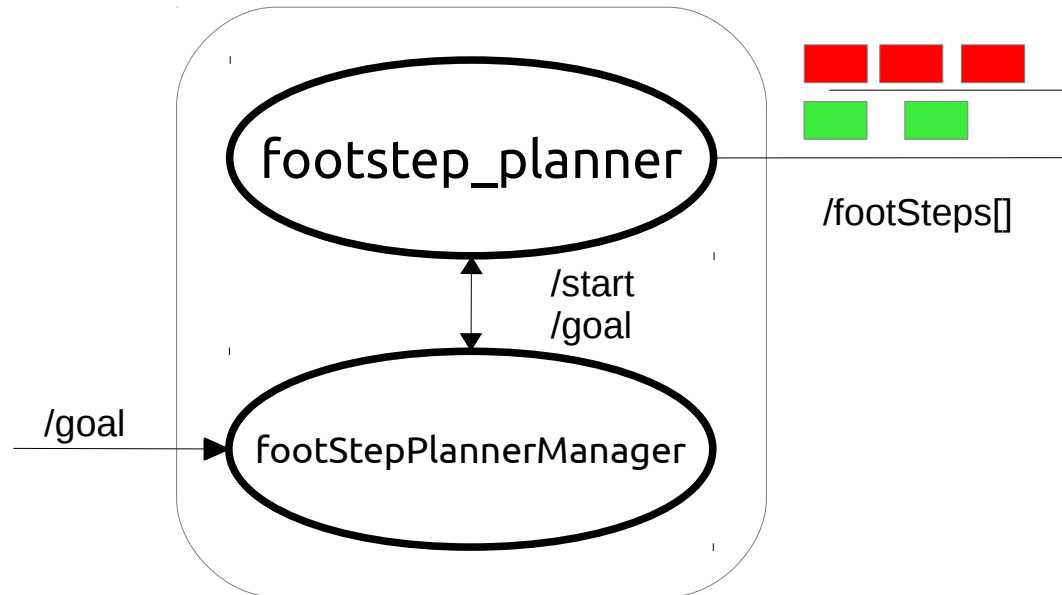
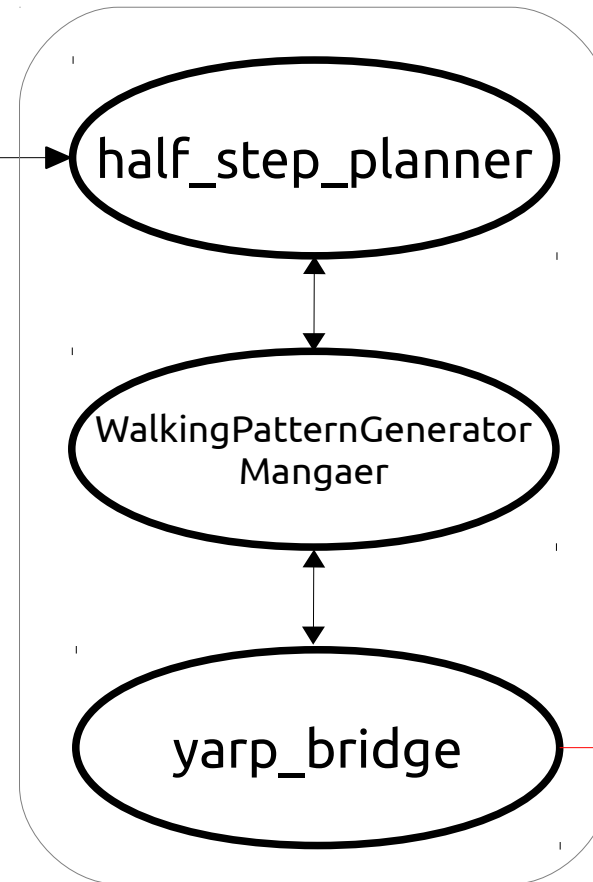


Foot Step Planner ROS



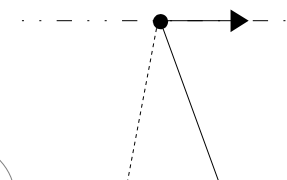
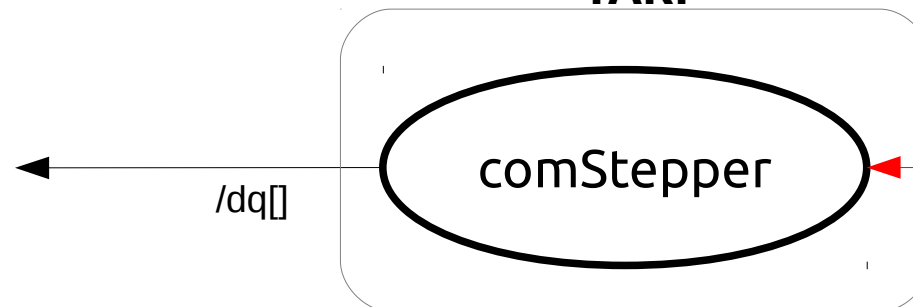
Walking Pattern Generator ROS



iCub

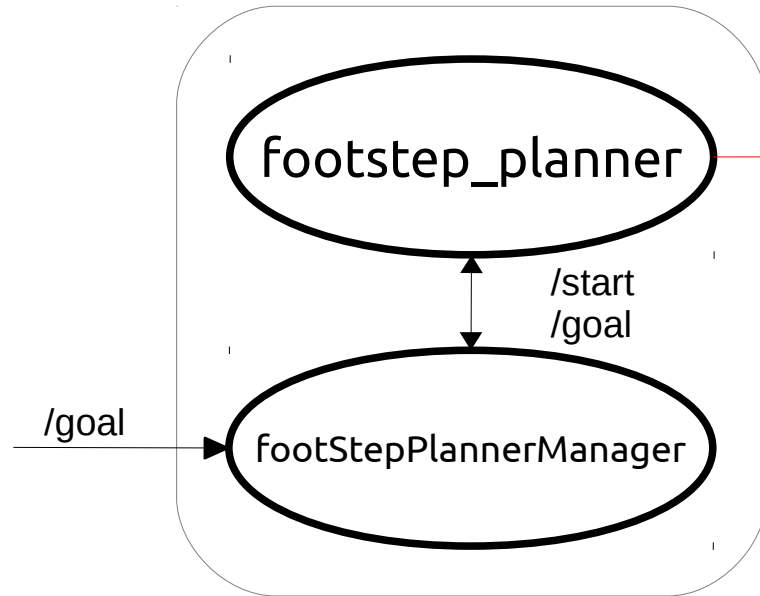


Task Control YARP

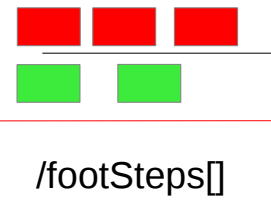


/COM_trj[]
/COM_dtrj[]
/ZMP_trj[]
/relative_trj[]

Foot Step Planner ROS



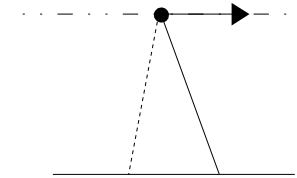
Walking Pattern Generator YARP



iCub



Task Control YARP



/COM_trj[]
/COM_dtrj[]
/ZMP_trj[]
/relative_trj[]

Walking Pattern Generator YARP

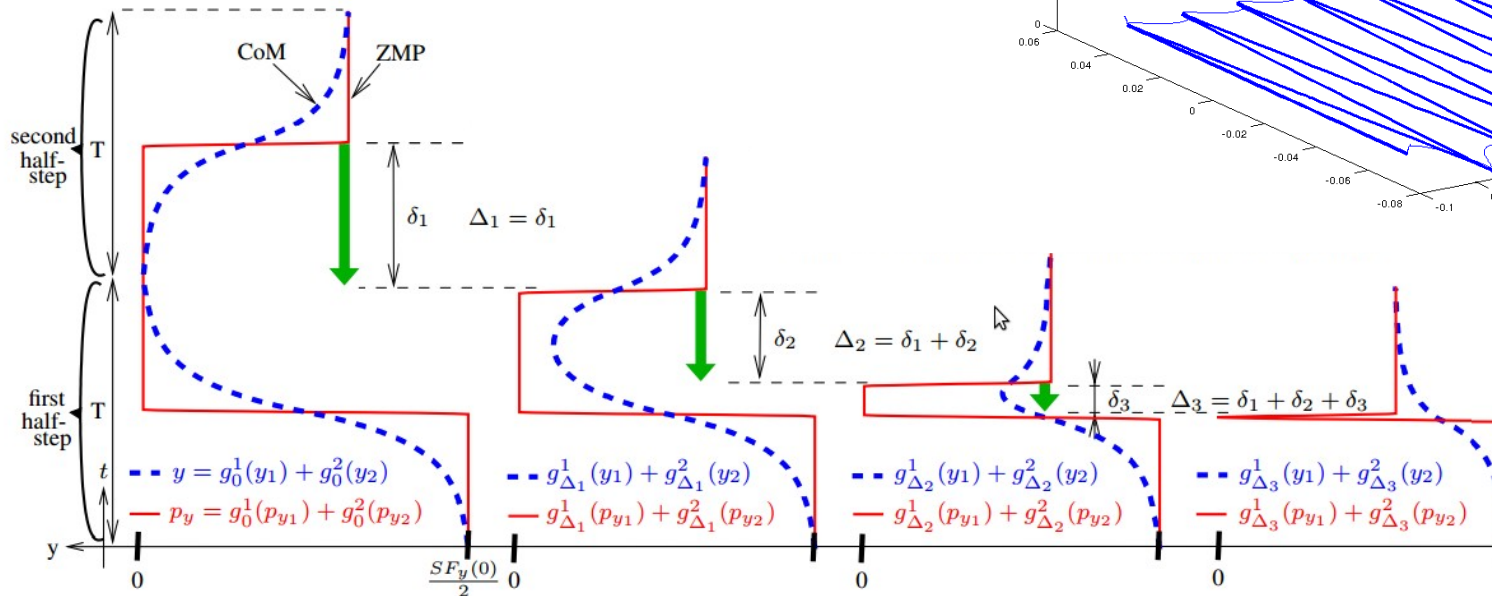
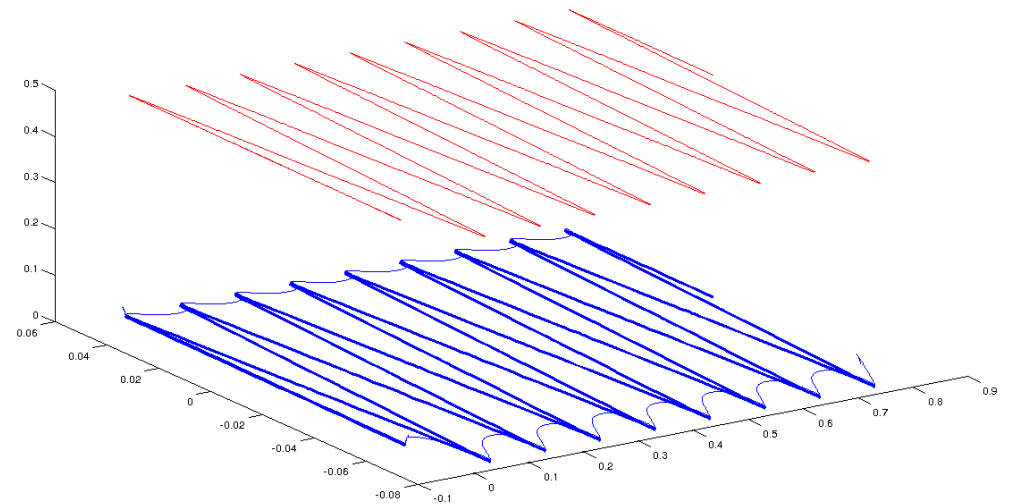
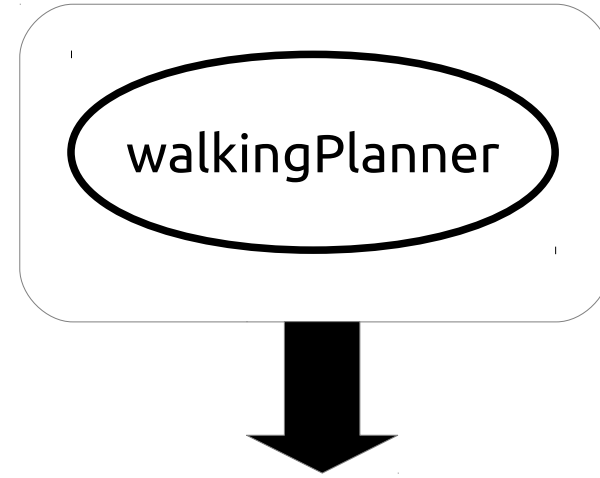
MODULE DESCRIPTION

Ports the *halfsteps_pattern_generator* library from the humanoid_walk ROS stack

Generates:

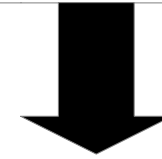
- Feet 3D trajectories
- Center of Mass (COM) trajectory.
- ZMP trajectory.

Based on a **half-steps walking pattern generator** (Perrin et al.*). No preview controller used.

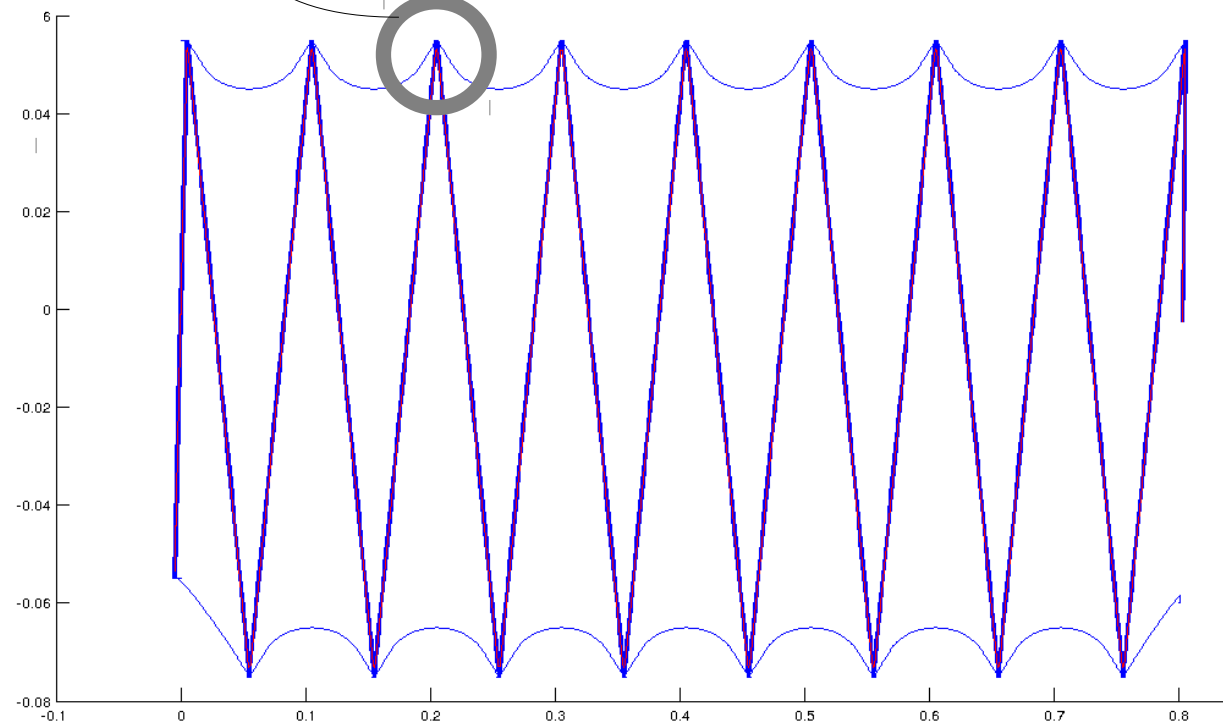


Walking Pattern Generator YARP

walkingPlanner



zoom



* *"A Biped Walking Pattern Generator based on "Half-Steps" for Dimensionality Reduction"*, Perrin et al. ICRA 2011